

Restoration Results of Goliad Aquifer at the Rosita Mine PAA 1 and 2

Contaminant	Units	PAA 1 Baseline	Post Restoration Stabilized Average	PAA 2 Baseline	Post Restoration Stabilized Average	MCL	Secondary MCL
Calcium	mg/l	155	125	170	173		
Magnesium	mg/l	53	26	62	50		
Sodium	mg/l	422	203	420	283		
Potassium	mg/l	42	18	28	22		
Carbonate	mg/l	Absent*		Absent*			
Bicarbonate	mg/l	204	191	216	238		
Sulfate	mg/l	199	196	248	227		250
Chloride	mg/l	866	370	870	623		250
Nitrate	mg/l	1.79	0.47	1.4	1.19	10	
Fluoride	mg/l	0.81	0.73	0.77	0.59		2
Silica	mg/l	50	24	53	35		
TDS	mg/l	1,933	1,141	2,045	1,712		500
EC-electrical conductivity	umhos	3,388	1,788	3,519	2,643		
Alk as CaCO ₃		169	157	177	196		
pH		***	7.43	***	7.22		6.5-8.5
Arsenic	mg/l	0.009	0.005	0.014	0.004	0.01	
Cadmium**	mg/l	***	**	***	**	0.005	
Iron	mg/l	0.105	0.014	0.020	0.027		0.3
Lead**	mg/l	***	**	***	**	0.015	
Manganese	mg/l	0.06	0.11	0.03	0.18	0.05	
Mercury	mg/l	0.0003	0.0001	0.0001	0.0001	0.002	
Molybdenum	mg/l	0.05	0.23	0.06	0.14		
Selenium**	ug/l	0.008	0.033	0.006	0.034	0.05	
Uranium	ug/l	350	616	547	755	30	
Ammonia-N	mg/l	0.38	0.15	0.08	0.13		
Radium226	pCi/l	183	86.9	130.3	60.78	5	

*due to pH levels

** according to URI's report the accredited analytical methods used to determine the stabilized average had a higher lower limit of detection (LLD) than the analytical methods used to detect baseline. Rather than use (0) in the calculations the lab's LLD values were used, resulting in post restoration stability averages greater than baseline. The report implies this change in LLD impacted the results for cadmium, lead and selenium. However all three are stated to have remained below MCLs during mining and after the restoration process.

***baseline not provided